

## ABSTRACT OF THE DISCLOSURE

The present liquid depth sensing system with its liquid identification capability provides an economical device which may be installed in a multitude of different applications to perform multiple quantity measurement and detection functions. The present system includes a miniaturized piezoelectric pneumatic pump, sized and adjusted to produce a consistent stream of bubbles from the outlet end of the dip tube in the purge system of the present invention. The small variations in pneumatic pressure in the system due to the cycling of each bubble working through the surface tension and viscosity of the liquid as the bubble leaves the outlet end of the tube are detected and converted to a voltage signal which is used to identify the liquid at the outlet end of the tube. The present system is extremely valuable for identifying contaminants in the tank, as well as for measuring the liquid quantity in the tank.